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(54) METHOD AND APPARATUS FOR REGENERATING FILTER MODULE

(57)Abstract:

PURPOSE: To efficiently remove the deposit bonded to the filtering surfaces of hollow yarn membranes by appropriately changing over the supply and discharge of backwashing water to change the water level in a module along hollow yarn bundles.

CONSTITUTION: The filtering operation of a filter module 1 is performed by supplying raw water to the partitioned space 5 of a cylindrical case 2 as shown by an arrow A to filter the same by semipermeable hollow yarn bundles 3 and allowing the filtered water to flow out toward the upper surface of a partition wall as shown by an arrow B. A vibrator 8 is horizontally moved, for example, in amplitude of 5cm at 150 cycles/min and a filter to be regenerated is fixed to this vibration part so that a raw water supply port at a time of filtering becomes an upper side and a washing water discharge pipe 9 is connected to the filter and a backwashing water supply pipe 10 is connected to the transmitted water outlet at the time of filtering. An opening and closing valve 12 is provided to the backwashing water supply pipe 10. A backwashing water drain pipe 11 is provided between a filter connection port and the opening and closing valve 12 as a branch pipe and an opening and closing valve 13 is provided to the backwashing water drain pipe 11.

